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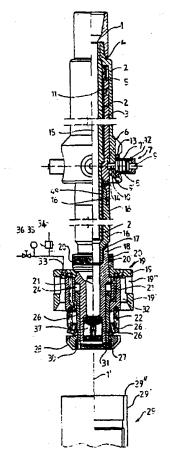
(56) Documents Cited by ISA EP 0427424 A2 WO 91/14076 A1 WO 90/00668 A1

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## (54) Circulation equipment

(57) The invention relates to a circulation equipment for the purging of predrilled oil and gas bells upon setting of casings and conductor pipes. The equipment may be designed to be suspended from the top drive of a derrick. Thereby, one has aimed at establishing a fluid-tight, easily releasable interconnection between circulation equipment and casing/conductor pipe (29) to be circulated in connection with setting, without the use of threads. The circulation equipment having the form of an elongated pipe having a through-going bore (15), carries at the lower end thereof (with respect to the position of use) a tool head (19) exhibiting a downwardly open annulus (32) for the accommodation of the coupling piece (29') of said casing/conductor pipe (29) and, within the area of said annulus (32), a radially expandable annular packing element (22) which in expanded condition, with said pipe coupling piece (29') situated within the annulus (32), rests itself sealingly against the inner surface of the pipe coupling piece (29').



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